USER'S MANUAL

OSD (On Screen Display) Manual

XCK55671RZ07
XCK55671RZ11

Operating Instructions

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I. Function Features

Advanced DNR Function
3D Filtering of the Video Signal Optimizes the Signal to Noise ratio, giving vas improved low light visibility and powerful Sens-Up function (up to 258 times magnification)

3D-DNR **OFF**

3D-DNR **ON**

High Resolution 550TV Lines
550TV Lines horizontal resolution in color mode and 600TV Lines horizontal resolution in BW mode

Standard Camera

550TV Lines Camera

WDR (Wide Dynamic Range)
Capturers' cleaner and superior high resolution pictures even where images appear dark because there is a strong back light present.

WDR **OFF**

WDR **ON**

HS BLC (Backlight Compensation)
High spotlight BLC is especially effective to read the number plate of the vehicles in the street or parking lot at night time. Especially users can adjust and select the special requirement area to observe the target object under the strong spots of light exist.

BLC **OFF**

HS BLC **ON**

Illumination (0.00001 Lux)
With an incredibly minimum illumination of amazing 0.00001Lux can capture good images even in extremely low light conditions

Standard Image

Min. Illumination Image

II. Key Buttons

Pressing the "SETUP" button prompts the main setup menu.

PUSH button : To access the main setup menu, Select Menu, Exit Menu
U button : Manu item UP selection
D button : Manu item DOWN selection
L button : To change data to down
R button : To change data to up

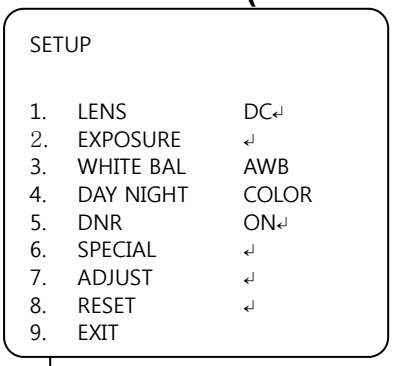
III. OSD SETUP Menu for Quick Reference

SETUP Menu			Default Value	Description
1. LENS			DC: Brightness 50	Manual, DC: Brightness Range : 0 ~ 100
2. EXPOSURE				EXPOSURE Sub-Menu
	SHUTTER		NTSC: 1/60 (PAL: 1/50)	1/60 (PAL: 1/50), FLK, 1/250, 1/500, 1/2000, 1/5000, 1/10000, 1/100000
	BRIGHTNESS		- - -	No operation
	AGC		MIDDLE	Adjusts the maximum gain mode. OFF, LOW, MIDDLE, HIGH
	SENS-UP		AUTO (x32)	OFF, AUTO (Range : x2 ~ x258)
	BLC		OFF	OFF, BLC (BLC sub-menu), HSBLC (HSBLC sub-menu)
	BLC	GAIN	LOW	LOW, MIDDLE, HIGH
		DEFAULT		Initializes the changed category in BLC menu
		LEFT/RIGHT	2	Range: 0 ~ 7
		WIDTH	4	Range: 0 ~ 8
		TOP/BOTTOM	3	Range: 0 ~ 7
		HEIGHT	3	Range: 0 ~ 8
		RETURN		Return to EXPOSURE sub-menu
	HSBLC	LEVEL	5	Range: 0 ~ 8
		DEFAULT		Initializes the changed category in HSBLC menu
		LEFT/RIGHT	2	Range: 0 ~ 7
		WIDTH	4	Range: 0 ~ 8
		TOP/BOTTOM	3	Range: 0 ~ 7
		HEIGHT	3	Range: 0 ~ 8
		RETURN		Return to EXPOSURE sub-menu
	D-WDR		OFF	OFF: Disable the Wide Dynamic Range function, INDOOR, OUTDOOR
	RETURN			Return to SETUP menu
3. WHITE BAL.			ATW	ATW: Auto Trace WB mode, AWB: Wide Range Trace Mode, AWC->SETUP Manual (Blue Gain & Red Gain Range: 0 ~ 100)
4. DAY NIGHT			COLOR	COLOR, B/W, AUTO: Delay (0 ~ 63) / S-LEVEL (0 ~ 100) / E-LEVEL (0 ~ 100), RESET
5. DNR			ON: Level 50	OFF, ON (Level Range: 0 ~ 100)

SETUP Menu	Default Value	Description
6. SPECIAL		SPECIAL sub-menu
1. CAM TITLE	OFF	Title (Max. 15 Characters), This position is adjustable.
2. D-EFFECT		D-EFFECT sub-menu
FREEZE	OFF	OFF, ON
MIRROR	OFF	OFF, Mirror, V-FLIP, ROTATE
D-ZOOM	OFF	D-ZOOM Range: x1.0 ~ x32.0 PAN Range: -100 ~ 100 TILT Range: -100 ~ 100 Return: Return to E-EFFECT sub-menu
GAMMA	0.45	Range: 0.05 ~ 1.00
NEG. IMAGE	OFF	OFF, ON
RETURN		Return to SPECIAL sub-menu
3. MOTION	OFF	Area Select: AREA1 ~ AREA4 Area Display: OFF, ON LEFT/RIGHT Range: 0 ~ 100 WIDTH Range: 0 ~ 100 TOP/BOTTOM Range: 0 ~ 100 HIGHT Range: 0 ~ 100 SENSITIVITY Range: 0 ~ 40 Return : Return to SPECIAL sub-menu
4. PRIVACY	OFF	Area Select: AREA1 ~ AREA8 Area Display: OFF, ON LEFT/RIGHT Range: 0 ~ 100 WIDTH Range: 0 ~ 100 TOP/BOTTOM Range: 0 ~ 100 HIGHT Range: 0 ~ 100 SENSITIVITY Range: 0 ~ 40 Return : Return to SPECIAL sub-menu
5. SYNC	INT	Initializes the changed category in SPECIAL menu
6. RETURN		Return to SETUP menu
7. ADJUST		ADJUST sub-menu
MOTION	OFF	Area Select: AREA1 ~ AREA4 Area Display: OFF, ON LEFT/RIGHT Range: 0 ~ 100 WIDTH Range: 0 ~ 100 TOP/BOTTOM Range: 0 ~ 100 HIGHT Range: 0 ~ 100 SENSITIVITY Range: 0 ~ 40 Return : Return to SPECIAL sub-menu
PRIVACY	OFF	Area Select: AREA1 ~ AREA8 Area Display: OFF, ON LEFT/RIGHT Range: 0 ~ 100 WIDTH Range: 0 ~ 100 TOP/BOTTOM Range: 0 ~ 100 HIGHT Range: 0 ~ 100 SENSITIVITY Range: 0 ~ 40 Return : Return to SPECIAL sub-menu
SYNC	INT	Initializes the changed category in SPECIAL menu
RETURN		Return to SETUP menu
8. RESET		Initializes the changed category in SETUP menu
9. EXIT		Save the SETUP menu and exit

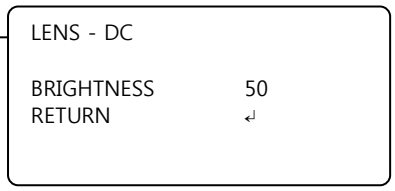
IV. Explanation of SETUP Menu

SETUP Menu (First Menu)



1. LENS

- DC (Default): DC sub-menu



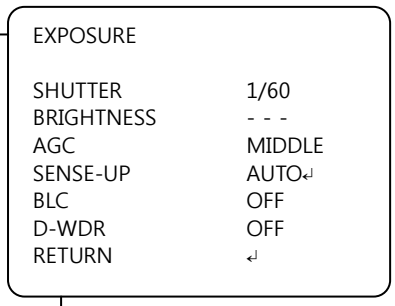
1-1. BRIGHTNESS
- Changes brightness level (Range: 0 ~ 100)
- Darker (0) ~ Brighter (100)

1-2. RETURN
- Return to the Main Menu

- MANUAL (If set up Brightness with manual lens, it operate by EXPOSURE sub-menu)

2. EXPOSURE

- EXPOSURE sub-menu

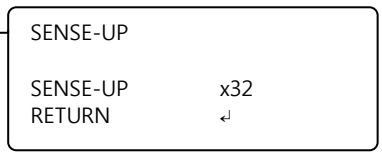


2-1. SHUTTER
- Current shutter speed
- 1/60(Default)-NTSC 1/50(Default)-PAL, FLK, 1/250, 1/500, 1/2000, 1/5000, 1/10000, 1/100000

2-2. BRIGHTNESS
- No operation (When lens set up "MANUAL" mode," it will be operated)

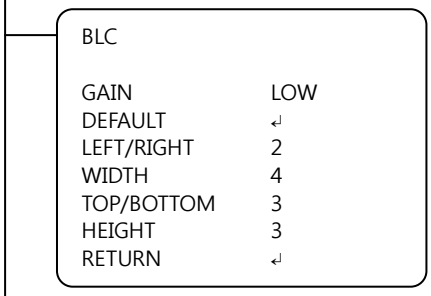
2-3. AGC
- AGC Level
- OFF, LOW, MIDDLE (Default), HIGH

2-4. SENSE-UP
- OFF: Disable SENSE-UP mode
- AUTO: AUTO sub-menu

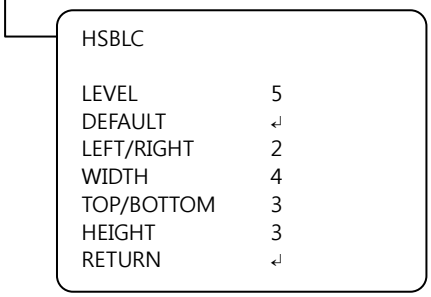


① SENSE-UP
- ○ Select sense-up level
- ○ x2, x4, x8, x16, x32 (Default), x64, x128, x256

② RETURN
- ○ Return to the EXPOSURE sub-menu



2-5. BLC (Backlight Compensation)
- OFF (Default): Disable BLC mode
- BLC: BLC mode / BLC sub menu
  - ① GAIN
    - BLC level: LOW (Default), MIDDLE, HIGH
    - Backlight compensation weighting value of each BLC mode
  - ② DEFAULT
    - Initializes the changed category in BLC menu
  - ③ LEFT/RIGHT, WIDTH, TOP/BOTTOM, HIGHT
    - Backlight compensation weighting zone
  - ④ RETURN
    - Return to the EXPOSURE sub-menu



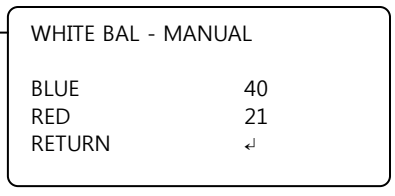
- HSBLC: HSBLC mode / HSBLC sub-menu
  - ① LEVEL
    - BLC level (Range: 0 ~ 8 / Default: 5)
    - Backlight compensation weighting value of each BLC mode
  - ② DEFAULT
    - Initializes the changed category in HSBLC menu
  - ③ LEFT/RIGHT, WIDTH, TOP/BOTTOM, HIGHT
    - Backlight compensation weighting zone
  - ④ RETURN
    - Return to the EXPOSURE sub-menu

2-6. D-WDR (Digital Wide Dynamic Range)
- OFF (Default): Disable D-WDR mode
- INDOOR: Indoor D-WDR mode
- OUTDOOR: Outdoor D-WDR mode

2-7. RETURN
- Return to the Main Menu

3. WHITE BAL

- ATW: Auto trace white balance mode
- AWB (Default): Wide range auto white balance mode
- AWC->SET
- MANUAL: MANUAL sub-menu



☞ Adjust R/B gain manually

3-1. BLUE
- Changes BLUE gain (Range: 0 ~ 100)

3-2. RED
- Changes RED gain (Range: 0 ~ 100)

3-3. RETURN
- Return to the Main Manu

4. DAY NIGHT

- COLOR (Default): Day fix mode
- B/W: Night fix mode
- AUTO: Automatically COLOR / B/W (Day / Night) according to illumination change.

```
DAY NIGHT - AUTO

DELAY          3
S-LEVEL        76
E-LEVEL        51
RETURN         ↲
```

4-1. DELEY
- Time to protect susceptible conversion of COLOR / BW
- Range: 0 ~ 63 (Default: 3)

4-2. S-LEVEL
- Starting Level - Adjust start level to set Color and BW

4-3. E-LEVEL
- Ending Level - Adjust end level to set Color and BW

4-4. RETURN
- Return to the Main Menu

- EXT: Changes COLOR / B/W according to external input signal

5. DNR

- OFF: Disable the DNR
- ON (Default): Changes Level (Range: 0 ~ 100)

```
DNR

LEVEL          50
RETURN         ↲
```

5-1. LEVEL
- DNR level (Default: 50): Range 0 ~ 100

5-2. RETURN
- Return to the Main Menu

6. SPECIAL

- SPECIAL sub-menu

```
SPECIAL
1.  CAM TITLE      OFF
2.  D-EFFECT       ↲
3.  MOTION         OFF
4.  PRIVACY        OFF
5.  SYNC           INT
6.  RETURN         ↲
```

6-1. CAM TITLE
- OFF: Disable CAM TITLE
- ON: Refer to the CAM TITLE editing menu

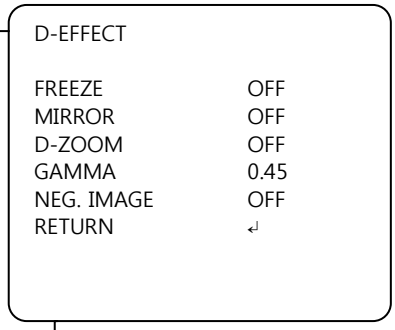
```
CAM TITLE

   0 1 2 3 4 5 6 7 8 9
  A B C D E F G H I J K
  L M N O P Q R S T U V
  W X Y Z ▷⇩⇧ ⇨⇦( )
  ¯–_ □ / = & : ~ , .

⇦  ⇨          POS     END

- - - - - - - - - - - - - - - -
```

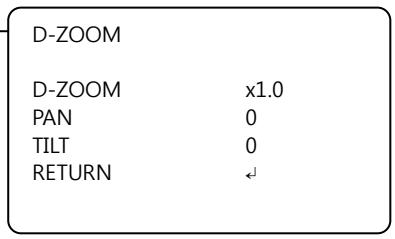
① Select position of title

② When the cursor is blinking. You can select the character by PUSH button
- ○ ⇦ : Previous Character
- ○ ⇨ : Next Character
- ○ POS : Change the position of the CAM TITLE. After changing the position, you should push the setup button one more time.
- ○ END : After set, click this letter to end up.

6-2. D-EFFECT

- D-EFFECT sub-menu





① FREEZE
- OFF (Default): Real picture
- ON: Still picture

② MIRROR
- OFF: Normal picture
- MIRROR: Horizontal reverse picture
- V-FLIP: Vertical reverse picture
- ROTATE: Horizontal and vertical reverse picture

③ D-ZOOM (Digital ZOOM)

A. D-ZOOM
   - Digital ZOOM Range: x1.0 ~ x32.0

B. PAN
   - PAN Range: -100 ~ 100

C. TILT
   - TILT Range: -100 ~ 100

D. RETURN
   - Return to the previous menu

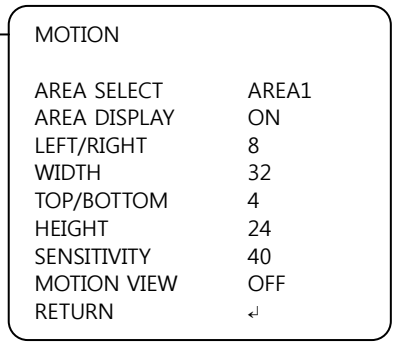
④ GAMMA
- Default: 0.45 (Range: 0.05 ~ 1.00)

⑤ NEG. IMAGE
- OFF (Default): Positive picture
- ON: Negative inverted picture

⑥ RETURN
- Return to the previous menu

6-3. MOTION

- OFF: Disable MOTION control
- ON: Display the motion detecting control menu



① AREA SELECT
- AREA1 ~ AREA4
- The zone of motion detection

② AREA DISPLAY
- ON (Default): Enable the motion detection
- OFF: Disable the motion detection

③ LEFT/RIGHT
- Horizontal starting point for motion detection zone (Range: 0 ~ 100)

④ WIDTH
- Horizontal terminating point for motion detection zone (Range: 0 ~ 100)

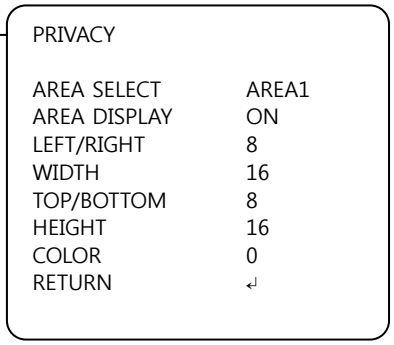
⑤ TOP/BOTTOM
- Vertical Starting point for motion detection zone (Range: 0 ~ 100)

⑥ HEIGHT
- Vertical terminating point for motion detection zone (Range: 0 ~ 100)

⑦ SENSITIVITY
- Range: 0 ~ 40

⑧ MOTION VIEW
- OFF (Default)
- ON: Display motion block

⑨ RETURN
- Return to the previous menu



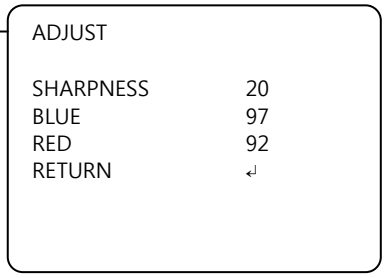
6-4. PRIVACY
- OFF: Disable PRIVACY control
- ON: Display the privacy control menu
  - ① AREA SELECT
    - AREA1 ~ AREA8
    - Privacy mask zone number
  - ② AREA DISPLAY
    - ON (Default): Enable privacy zone
    - OFF: Disable privacy zone
  - ③ LEFT/RIGHT
    - Horizontal starting point of privacy zone (Range: 0 ~ 100)
  - ④ WIDTH
    - Horizontal terminating point of privacy zone (Range: 0 ~ 100)
  - ⑤ TOP/BOTTOM
    - Vertical Starting point of privacy zone (Range: 0 ~ 100)
  - ⑥ HEIGHT
    - Vertical terminating point of privacy zone (Range: 0 ~ 100)
  - ⑦ COLOR
    - Display Color (Range: 0 ~ 15)
  - ⑧ RETURN
    - Return to the SPECIAL sub-menu

6-5. SYNC

6-6. RETURN
- Return to the previous menu

7. ADJUST

☞ ADJUST sub-menu



7-1. SHARPNESS
- Range: 0 (blunt image) ~ 31 (sharp image)

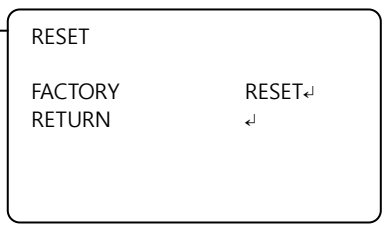
7-2. BLUE
- Range: 0 ~ 100
- Blue gain

7-3. RED
- Range: 0 ~ 100
- Red Gain

7-4. RETURN
- Return to the Main Menu

8. RESET

☞ RESET sub-menu



8-1. FACTORY
- Restore to factory default condition

8-2. RETURN
- Return to the Main Menu

9. EXIT

- Save the SETUP menu and exit